



PREMIER ENGINEERED
CLEANING SOLUTIONS

HydroCleaner

Model #: HC-02



OPERATOR'S MANUAL



WARNING:

Improper use and/or failure to follow instructions may result in serious injury. Carefully read all instructions before use. Never spray flammable, caustic, acidic, chlorine, bleach, petroleum, non-water based, or other corrosive solutions or heat, pressure, or gas producing chemicals. ALWAYS follow chemical manufacturer's SDS instructions.

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1. MAIN COMPONENTS

1.1 HydroCleaner Figures:

FIGURE 1.1.1 Overall View (w/Skin)

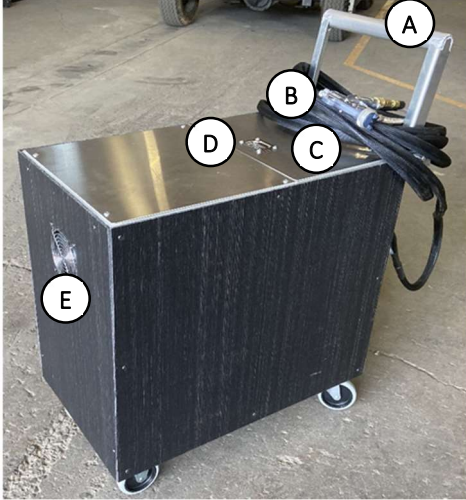


FIGURE 1.1.2 Front View (w/o Skin)

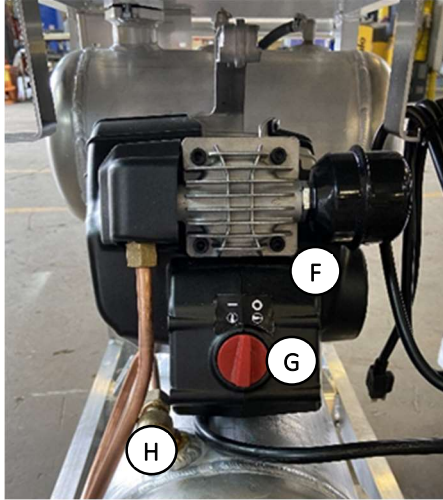


FIGURE 1.1.3 Rear View (w/Skin)

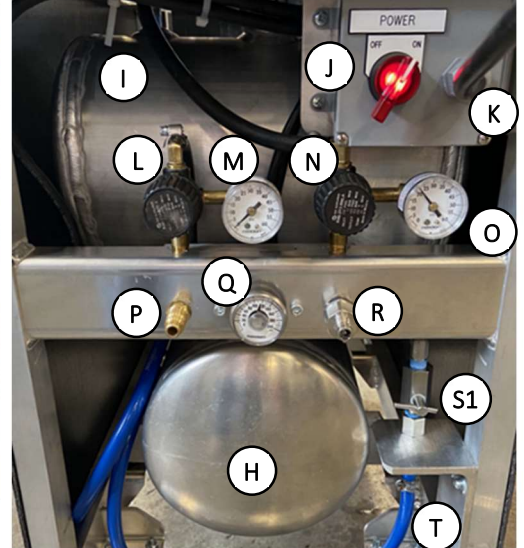


FIGURE 1.1.4 Side View 1 (w/o Skin)

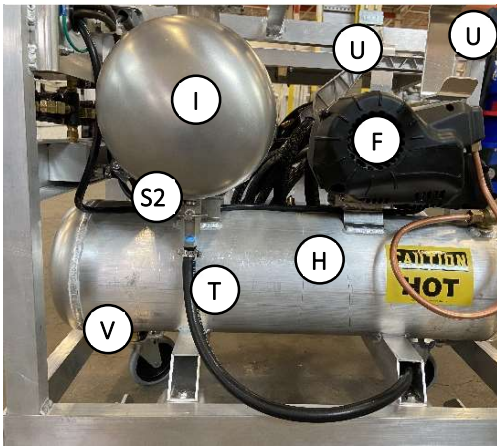


FIGURE 1.1.5 Pump Tank Bottom View

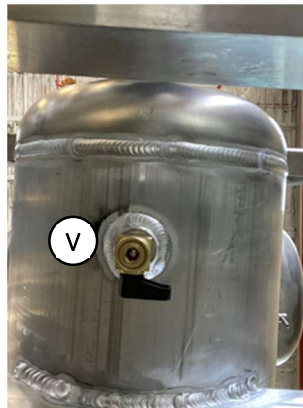


FIGURE 1.1.6 Top View w/ Top Access Panel Open

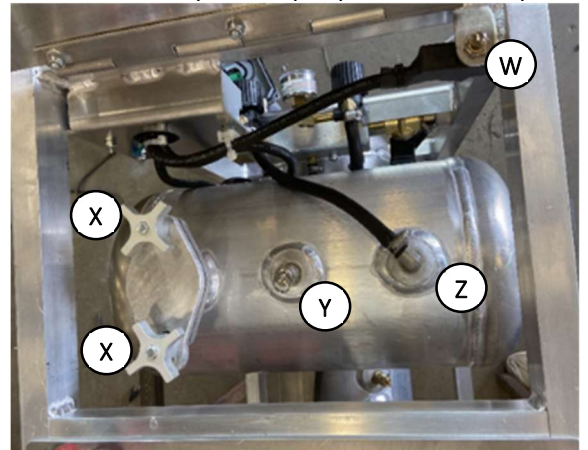


FIGURE 1.1.7 Side View 2 (w/o Skin)

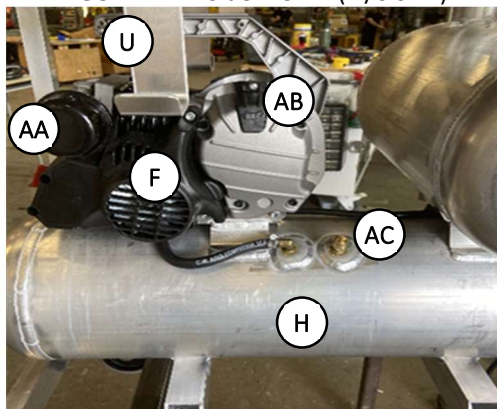


FIGURE 1.1.8 Handle Base

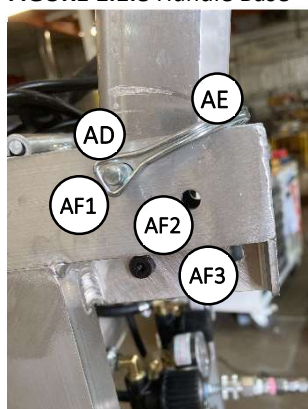
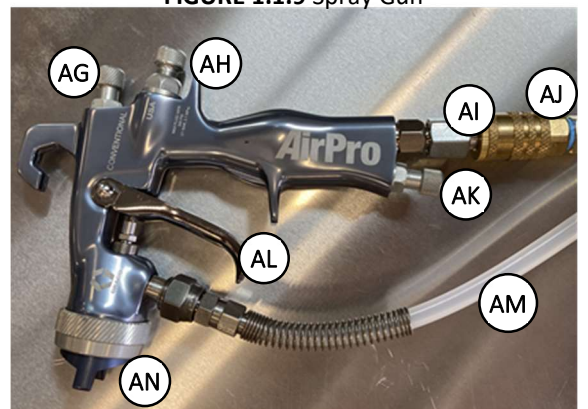


FIGURE 1.1.9 Spray Gun



1.2 Main Components List:

| ID | COMPONENT | ID | COMPONENT | ID | COMPONENT |
|----|--|----|--------------------------------------|-----|--|
| A | HANDLE | P | AIR HOSE INLET | AD | HANDLE LOCKING PIN |
| B | SPRAYER HOSING | Q | PUMP PRESSURE GAUGE | AE | PIN CLAMP |
| C | TOP ACCESS PANEL | R | LIQUID HOSE INLET | AF1 | HANDLE HEIGHT ADJUST HIGH (VERTICAL POSITION) |
| D | TOP ACCESS PANEL HANDLE | S1 | TANK DRAIN VALVE (FOR UNIT W/SKIN) | AF2 | HANDLE HEIGHT ADJUST MEDIUM (45° POSITION) |
| E | INTERNAL COOLING FAN (FOR UNITS W/SKIN ONLY) | S2 | TANK DRAIN VALVE (FOR UNIT W/O SKIN) | AF3 | HANDLE HEIGHT ADJUST LOW (HORIZONTAL POSITION) |
| F | PUMP UNIT | T | TANK DRAIN HOSE | AG | SPRAY GUN PATTERN ADJUST |
| G | PUMP POWER ON/OFF SWITCH | U | CORD STORAGE HOOKS | AH | SPRAY GUN FLUID ADJUSTMENT KNOB |
| H | PUMP TANK | V | PUMP TANK DRAIN VALVE | AI | SPRAY GUN AIR QUICK CONNECT |
| I | TANK | W | DOOR SWITCH | AJ | SPRAY HOSING (COLORED = AIR) |
| J | POWER OFF/ON SWITCH | X | TANK CLAMP | AK | SPRAY GUN AIR FLOW ADJUST KNOB |
| K | GFI POWER CORD | Y | TANK PRESSURE RELIEF | AL | SPRAY GUN TRIGGER |
| L | SPRAY PRESSURE REGULATOR | Z | TANK OUTLET | AM | SPRAY HOSING (CLEAR = LIQUID) |
| M | SPRAY PRESSURE GAUGE | AA | PUMP AIR INTAKE | AN | SPRAY GUN AIR CAP/DIRECTION ADJUST |
| N | TANK PRESSURE REGULATOR | AB | PUMP OIL COVER | | |
| O | TANK PRESSURE GAUGE | AC | PUMP TANK PRESSURE RELIEF | | |

2. PRODUCT SPECIFICATIONS




| | |
|-----------------------|---|
| System Power: | 120 Volts AC; 15 Amps; GFI Circuit |
| Spray Pressure: | 20 PSI |
| Tank Capacity: | 2.5 Gallons |
| Overall Weight: | 55 Lbs |
| Overall Dimensions: | 28.75"H x 31.5"W x 16.5"D (with handle 38.75"H x 39.5"W x 16.5"D) |
| Solution Consumption: | Typically, the HydroCleaner dispenses 1 Quart of solution per Hour; when the spray gun is properly adjusted. 1 Quart of solution covers approximately 4,000 Sq. Ft. |

3. SAFETY INFORMATION



WARNING



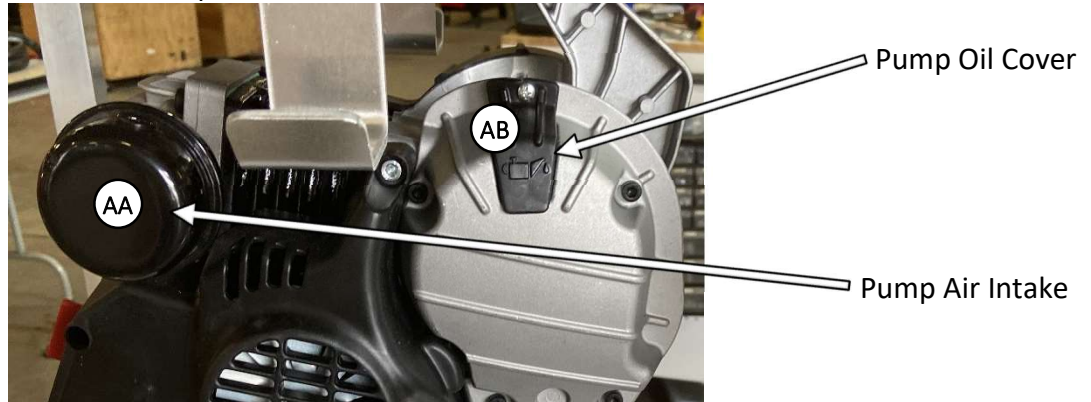
- Read and understand all instructions before handling and operating unit.
- Never store chemicals inside the tank.
-  Always remove power when not in use.
- Do not transport the HydroCleaner with contents in the tank.
- Do not transport the HydroCleaner pressurized.
- Always be careful when lifting the unit and keep unit upright.
- Always push the unit by the handles and be cautious of surroundings, hoses, and electrical cord. NEVER pull the unit by the hoses or power cords.
- This unit is intended for indoor use only. Keep unit clean and dry.
- Never attempt to modify this spray unit or adjust settings. Use only manufacturer replacement parts.
- Never use if under the influence of drugs, alcohol, or medication. Operator must be alert, competent, and use common sense to operate the unit. Negligence, distraction, and carelessness may result in injury and harm.
-  Beware of hoses and electrical cord as these are tripping hazards. Use safety signs and block off areas as necessary.
- Always use the HydroCleaner in a well ventilated area.
- Do not touch the pump or copper tubing, as it may be HOT!
- Do not use in hazardous environments or in the presence of flammable liquids, gases, or dust. Beware of all hazards in area and in combination with sprayer contents.
- Stop immediately if any unusual noise or vibration is detected. A trained service technician must check and repair unit before use.
- Always read and understand chemical SDS (safety data sheets) and all label markings before use.
- Always follow chemical manufacturer's instructions AND state and local codes for proper handling, use, storage, and disposal of chemicals.
-  Always wear proper PPE (personal protective equipment) when handling the unit. Eye protection (fitted goggles), gloves, and hearing protection (ear plugs) are to be worn at all times, as well as all of the PPE required per the SDS of any chemical being used.
- The HydroCleaner has been built and designed for the use of a 7.8% hydrogen peroxide solution. Any alternate substances, aside from clean water, may damage the integrity and safety of the unit, which can cause injury and property damage.
- Never pour flammable, caustic, acidic, chlorine, bleach, petroleum, non-water based, or other corrosive solutions; heat, pressure, or gas producing chemicals; or hot/boiling liquids into the tank.
- Maintain spray unit by following all Care Instructions. Always inspect spray unit, and never use if damaged.

4. OPERATION

4.1 Before Use Checklist:

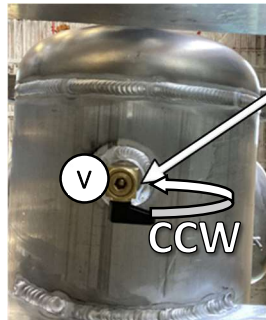
1. Make sure to wear all necessary PPE (per the environment and SDS of any chemical solutions) when handling the HydroCleaner.
2. If system was not depressurized after last use, the spray gun may be pressurized.
3. With the HydroCleaner unplugged, inspect hosing, valves, fittings, spray gun, and tank for any signs of damage and make sure connections are tight. Lift to open the top access panel to inspect internal equipment.
 - a. If any signs of wear, degradation, etc., to hosing or fittings, replace with manufacturer's part. Do NOT replace parts on the tank. This is a pressurized system and must be repaired by the manufacturer only. Contact for assistance.
4. Inspect electrical cord and plug for any signs of damage. Replace as needed.
5. DO NOT USE IF ANY DEFECTS ARE FOUND.
6. Make sure the pump maintenance is up to date. Maintenance listed below.
 - a. Check the pump crankcase oil level daily before use.
 - i. For HydroCleaner models with skin, remove the side wall to access the oil cover.
 - ii. Remove the pump oil cover (see Figure 4.1.1) to access the oil dipstick to check the level.
 - iii. If needed, pour high quality compressor oil to refill to the top raised line on the dipstick.

FIGURE 4.1.1 Pump Oil Cover and Air Intake



- b. Drain the pump tank condensation daily.
 - i. If system was not depressurized after last use, **the pump will be pressurized and compressed air will be released when draining.**
 - ii. Place a drain pan underneath the pump drain valve.
 - iii. Open the pump tank drain valve slowly by turning the handle 90° counterclockwise (to be pointing towards the floor) to release the compressed air and liquid from the pump tank. Allow pump to empty into the drain pan.

FIGURE 4.1.2 Bottom View of Pump Drain Plug



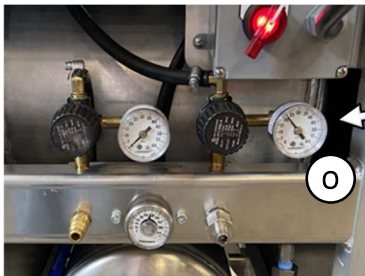
Pump Drain Plug
Rotate valve counterclockwise
to open/drain.

- iv. Carefully remove the drain pan and safely dispose of the collected water.
- v. Close the drain valve by turning the handle 90° clockwise to be parallel with the pump tank.
- c. On a weekly basis, unscrew the pump air intake and inspect the intake filter element. Clean or replace as needed.
- 7. Fill the tank with water and test the system per the Filling and Operating procedures. Inspect for any leaks/clogs and any other defects in the system.
- 8. If all inspections pass, empty the water from the system (see section 5.1 Emptying the Tank).

4.2 Filling the Tank:

- 1. Make sure power is off and the HydroCleaner is unplugged.
- 2. Lift the top access panel. The tank will automatically begin to vent.
- 3. Verify the tank pressure gauge reads 0 PSI so the tank is depressurized. **Do not proceed to the next step until depressurization is complete.**

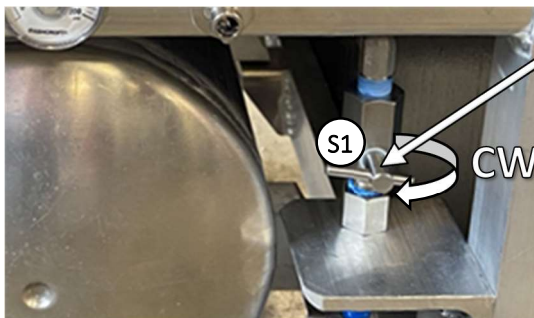
FIGURE 4.2.1 Tank Pressure Gauge



Tank Pressure
Gauge

-  **4. MAKE SURE THE TANK DRAIN VALVE IS COMPLETELY CLOSED (HANDLE IS TO BE PERPENDICULAR TO THE PIPE), ALLOWING THE SOLUTION TO FLOW TO THE SPRAY GUN.**


FIGURE 4.2.2 Tank Drain Valve Closed



Tank drain valve in closed position.
Valve is turned clockwise to close.

5. Unscrew the two clamps on the lid of the tank.
6. Lift and remove the lid.
7. Carefully pour the solution into the tank. Do NOT exceed the capacity of the tank (max 2.5gal of liquid). Use a funnel as needed for pouring.
8. Return the lid to the tank and fasten the two clamps evenly and securely. Gradually alternate clamps during the tightening process to ensure a complete and even seal.
9. Close/lower the top access panel.

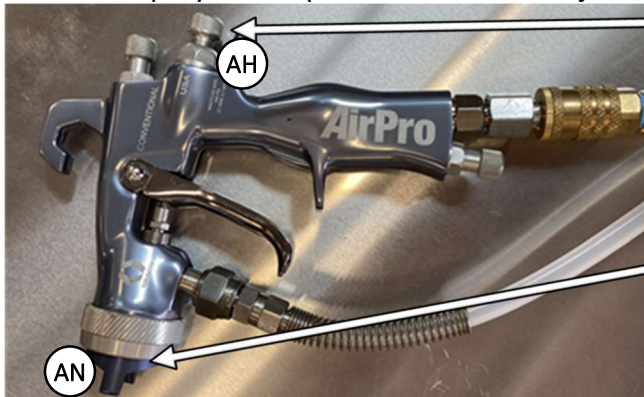
4.3 Operating Procedure:

1. Make sure all Before Use Checks and the Filling the Tank Procedures have been completed and the environment is safe to operate in.
 -  a. **VERIFY THE TANK DRAIN VALVE IS COMPLETELY CLOSED (HANDLE IS TO BE PERPENDICULAR TO THE PIPE), ALLOWING THE SOLUTION TO FLOW TO THE SPRAY GUN.**
2. Plug the unit into a 120VAC GFI protected outlet, and the GFI test light will illuminate.
3. At the HydroCleaner, locate the Power Off/On switch and turn to the On position.
4. The switch will illuminate, an internal fan will start (on skinned units only), and the pump will engage to pressurize the equipment as needed.
5. **Once the equipment is pressurized and the pump turns off, the unit is ready to begin spraying.**
 - a. NOTE: The spray gun will release the contents of the tank into the air; be sure to appropriately dispense the tank contents following all SDS and safety regulations for the solution dispensing procedures.
6. Squeeze and hold the trigger on the spray gun to dispense the solution.
 - a. NOTE: During the spraying process, the pump may turn on/off as needed to maintain required pressure. This is normal.
7. Release the trigger on the spray gun to stop dispensing the solution.
8. If the desired spray stream is not emitted, the pump, tank, or spray gun may need adjusted accordingly.
 - a. See the Spray Adjustments section for detailed instructions.
9. When finished spraying, release the trigger on the spray gun and turn the Power Off/On switch to Off.
10. Follow Care Instructions (section 5) after every use.

4.4 Spray Adjustment:

1. Make sure all Before Use Checks, Filling the Tank, and Operating Procedures have been completed and the environment is safe to operate in before adjusting the spray gun.
2. Make sure the HydroCleaner is plugged in and the Power Off/On switch is in the On position.
3. The air cap on the front of the sprayer gun may be rotated to adjust the direction of the spray. Do NOT exceed 360° and loosen the cap.
4. The liquid flow of the sprayer may be adjusted by rotating the knob clockwise to restrict flow and counterclockwise to increase flow (see Figure 4.4.1). Adjust as necessary to achieve desired spray.

FIGURE 4.4.1 Spray Gun Liquid and Direction Adjust

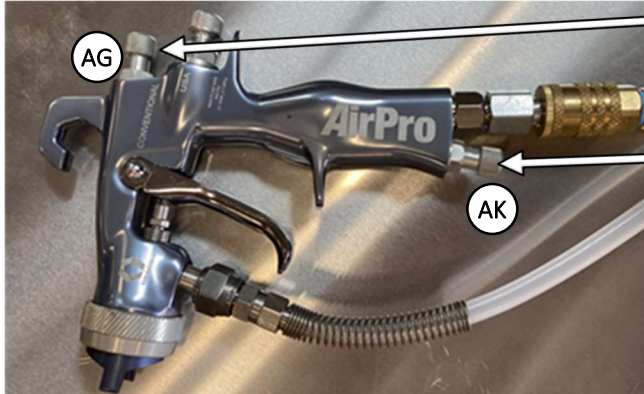


Spray Gun Liquid Adjust
Clockwise = Restrict Flow
Counterclockwise = Increase Flow

Spray Gun Air Cap/Direction Adjust
Rotate protruding part to change direction.
Do NOT exceed 360° and loosen cap.

5. The air flow of the sprayer may be adjusted by rotating the knob clockwise to increase air flow and counterclockwise to decrease air flow (see Figure 4.4.2). This is typically operated at full air flow.

FIGURE 4.4.2 Spray Gun Pattern and Air Flow Adjust

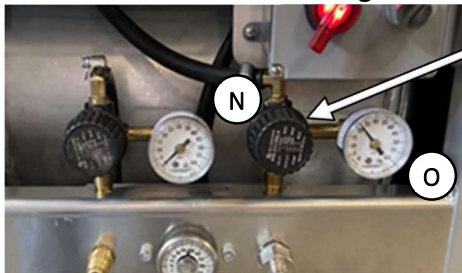


Spray Gun Pattern Adjust
Clockwise = Round Pattern
Counterclockwise = Narrow Pattern

Spray Gun Air Flow Adjust
Clockwise = Increase Air Flow
Counterclockwise = Decrease Air Flow

6. The spray pattern may be adjusted by rotating the knob counterclockwise to thin/narrow the spray pattern and clockwise to round the spray pattern.
7. All necessary adjustments should be able to be accomplished on the sprayer gun, but if necessary, the tank and pump pressures may need adjusted.
8. Typical tank pressure is set between 15-20 PSI, but pressures may vary.
 - a. Before changing the tank pressure, make sure the unit is powered on and the pump is finished running.
 - b. When the tank pressure has stabilized, adjust the regulator. As per the Figure 4.4.3 below, rotate clockwise to increase pressure and counterclockwise to decrease pressure to set at desired pressure setpoint. **NEVER EXCEED 55 PSI**, as this will over-pressurize the tank.

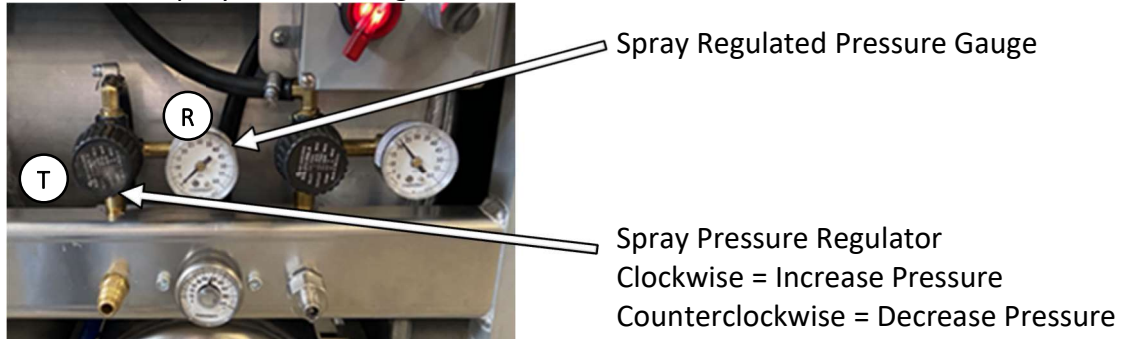
FIGURE 4.4.3 Tank Pressure Regulator



Tank Pressure Regulator
Clockwise = Increase Pressure
Counterclockwise = Decrease Pressure

9. Typically, the spray regulated pressure is set between 35-45 PSI, but pressures may vary.
 - a. To change the spray regulated pressure, rotate the spray pressure regulator (see figure below) clockwise to increase pressure and counterclockwise to decrease pressure to set at desired pressure setpoint. Typically, the regulated pressure setpoint is at least double the tank pressure. **NEVER EXCEED 55 PSI**, as this will over-pressurize the system.

FIGURE 4.4.4 Spray Pressure Regulator



10. If the spray regulated pressure was at or below the tank pressure, repeat the process to adjust the tank pressure to verify it is still at the desired setpoint.

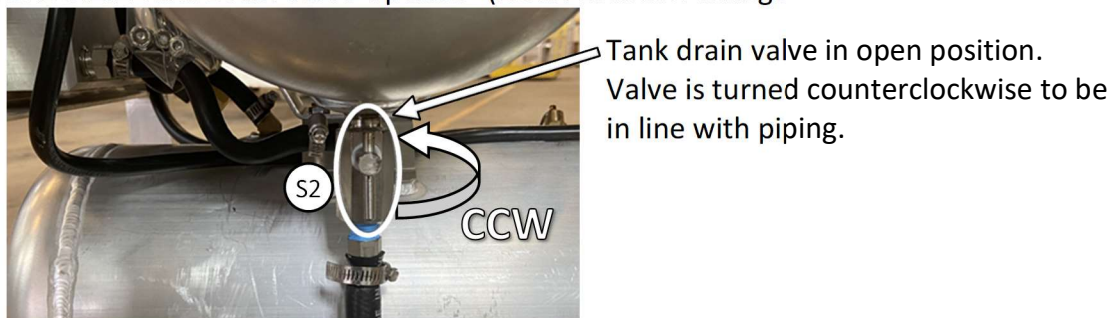
5. CARE INSTRUCTIONS

5.1 Emptying the Tank:

NOTE: Chemicals/solution should NEVER be stored inside the tank.

1. Make sure power is off and the unit is unplugged.
2. Open the top access panel.
3. Place the drain hose into an appropriate collection container, in accordance with SDS instructions, to capture the contents from the tank. Secure the hose to the container.
4. Open the tank drain valve by turning the handle 90° counterclockwise to be in line with the drainpipe.

FIGURE 5.1.1 Tank Drain Valve Opened (Note: Location changes for units with or without skin)



5. The tank will drain through the hose. Plug the unit into a 120VAC GFI protected outlet. At the HydroCleaner, locate the Power Off/On switch and turn to the On position.
6. Press and hold the door switch (see Figure 1.1.6) to drain the tank.
7. When the tank is empty, only air will come out. Turn the Power Off/On switch to the Off position.
8. Clean, dry, and carefully store the drain hose inside the HydroCleaner.

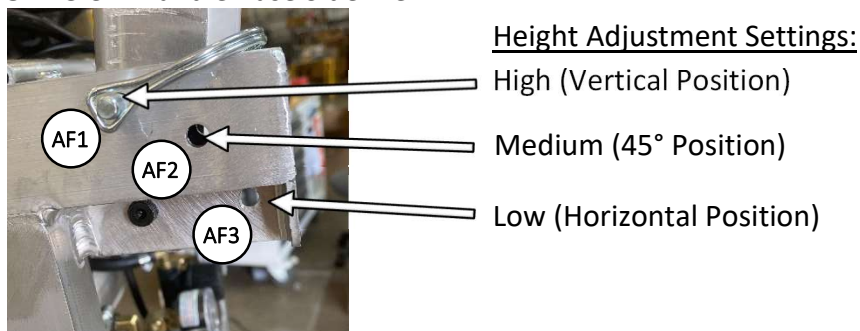
5.2 Rinsing the System:

1. Once the tank is empty, it will need to be rinsed thoroughly with WATER.
2. Unscrew the two clamps on the lid of the tank.
3. Rinse the interior of the tank lid and hosing and clean/rinse thoroughly (in accordance with SDS instructions).
4. Follow the Filling and Operating procedures to fill the tank with WATER and flush the system.
5. Operate spray gun with water to flush the liquid hosing (AI) and sprayer head. This should be done for a minimum of 5 minutes.
6. Follow the Emptying procedure and repeat rinsing process as needed until system is thoroughly rinsed.
7. When the tank is empty, squeeze the spray gun trigger to allow any liquid left in the hoses and spray gun to drain from the system.

5.3 Handle Height Adjustment:

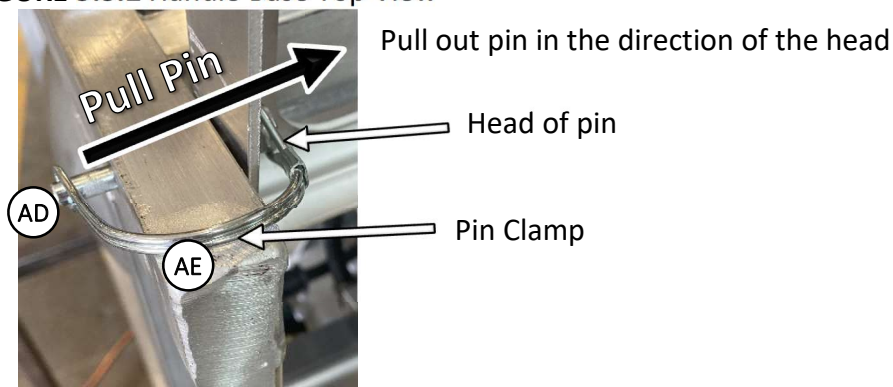
1. The handle height may be adjusted to the desired level for operation and storage. There are three height settings as shown in the figure below.

FIGURE 5.3.1 Handle Base Side View



2. To change the handle height, the pin must be removed from the current height setting by pulling outwards from the head of the pin to pull the pin through the hole.

FIGURE 5.3.2 Handle Base Top View



3. Repeat the process for the second pin on the opposite side of the handle.
4. Align handle to new height, and make sure both sides are at the same level.
5. Insert pins through the hole (flat end first) and reattach pin clamp to lock in position.

5.4 Storage:

1. Make sure power is off and the unit is unplugged.
2. Follow Care Instructions to rinse and empty the tank before storing.
3. Drain the water from the pump unit (see Before Use Checklist 4.1.6.b) and depressurize the system.
4. Wipe down/clean the HydroCleaner, spray gun, hose, cord, etc. as necessary (per SDS instructions) to clean any solution that may have come in contact with the equipment while the spray gun was in use.
5. Unplug the unit from the outlet and carefully store with the unit.
6. Loosely coil the hoses and place on top or on the storage hooks (for units without skin) of the HydroCleaner. Be sure not to crimp hoses and keep from resting on the floor.
7. Allow all components to dry completely before storing.
8. Store in a clean, dry location above 40°F.
9. For long term storage, leave the tank lid open.



6. Warranty

Premier Engineered Cleaning Solutions, LLC warrants each new Premier product to be free from defects in material and workmanship. This warranty is applicable only for the normal service life expectancy of the machine or components to not exceed twelve consecutive months from the date of delivery of the new Premier product to the original purchaser.

Under no circumstance will it cover any merchandise or components thereof which, in the opinion of the company, has been subjected to negligent handling, misuse, alteration, an accident, or if repairs have been made with parts other than those obtainable through Premier Engineered Cleaning Solutions, LLC.

Our obligation under this warranty shall be limited to repairing or replacing, free of charge to the original purchaser, any part that in our judgement shall show evidence of such defect, provided further that such part shall be returned within thirty (30) days from date of failure to Premier Engineered Cleaning Solutions, LLC. through the dealer and distributor to whom the purchase was made, transportation charges prepaid.

This warranty shall not be interpreted to render us liable for injury or damages of any kind or nature, direct, consequential, or contingent, to person or property. This warranty does not extend any expense or loss incurred for labor, supplies, substitute machinery, rental or for any other reason.

There are no warranties, either expressed or implied, of merchantability or fitness for particular purpose intended for fitness or any other reason.

This warranty is subject to any existing conditions of supply which may directly affect our ability to obtain materials or manufacture replacement parts.

Premier Engineered Cleaning Solutions, LLC. reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligations to owners of units previously sold.

No one is authorized to alter, modify, or enlarge this warranty nor the exclusions, limitations and reservations.

7. Disclaimer

In no event shall our company be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, whatsoever arising out of or connected with the use or misuse of our products.

8. Limitation of Liability

In the event of claims of damage or harm to person or property, damage is limited exclusively to available insurance coverage, if any.